

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

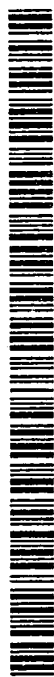
PCT

(10) International Publication Number
WO 2005/011643 A1

- (51) International Patent Classification⁷: **A61K 9/70**, 9/06, 9/10, 9/107, 9/12
- (21) International Application Number: **PCT/GB2004/003318**
- (22) International Filing Date: **30 July 2004 (30.07.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
0317868.8 **30 July 2003 (30.07.2003)** **GB**
- (71) Applicant (for all designated States except US): **DISPERSE LIMITED** [GB/GB]; European Centre, Surrey Research Park, 40 Alan Turing Road, Guildford Surrey GU2 7YF (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DIAS, Monica** [PT/GB]; The Evergreens, Hambledon Park, Hambledon, Guildford Surrey GU8 4EP (GB). **GUFFOGG, Philip** [GB/GB]; 16 St Michael's Road, Ponsanooth, Truro Cornwall TR3 7EA (GB). **WHEELER, Derek** [GB/GB]; 3 Maybelle Close, Beare Green Surrey RH5 4RJ (GB). **WHITBREAD-JORDAN, Mark** [GB/GB]; Fernside, Carn Lane, Carnkie, Redruth Cornwall TR16 0SL (GB).
- (74) Agents: **HAYES, Adrian, Chetwynd et al.**; BOULT WADE TENNANT, Verulam Gardens, 70 Gray's Inn Road, LONDON WC1X 8BT (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**
— of inventorship (Rule 4.17(iv)) for US only
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **BILIQUEL FOAMS, STABLE DISPERSIONS THEREOF AND A CORRESPONDING PROCESS OF MANUFACTURING**

(57) Abstract: A biliquid foam comprising from 10% to 98% by weight of a non-polar liquid other than a fuel and from 2 to 88% by weight of a continuous phase polar liquid comprising a C₁-C₄ alcohol, a liquid polyethylene glycol, ethylene glycol or propylene glycol, or mixtures thereof, in an amount of at least 65% by weight, relative to the weight of the continuous phase, wherein the biliquid foam is stabilized with an amount of from 0.05% to 2% by weight based on the total formulation of a surfactant which is selected from castor oil/poly(alkylene glycol) adducts containing from 20 to 50 alkoxy groups, a C₈-C₂₄ fatty acid or hydrogenated castor oil/poly(alkylene glycol) adducts containing from 20 to 60 alkoxy groups, or mixtures thereof. A stable dispersion having a content of at least 65% by weight with regard to C₁-C₄ alcohol, liquid polyethylene glycol, ethylene glycol or propylene glycol which dispersion comprises from 1-80% by weight of a biliquid foam and from 99-20% by weight of an aqueous gel.



WO 2005/011643 A1